



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.3311
Job Sheet 168021



Part No: 646.3311

Job Qty: 8 ea

Part Name: RH Half - Upper Cutter Assembly



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/9/17

Job Tracking No:

Due Date: 11/24/17

Created By: Linda Lacelle

Type: Stock

Description:

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	8 Ea	11/23/17	11/23/17	0.00	0.00	Start up container		SBL 17/12/05
110	CNC Vertical Machining	8 pcs	11/24/17	11/24/17	0.59	10.53	HAAS 1		SBL 17/12/05
120	QC	8 pcs	11/24/17	11/24/17	0.00	0.00	QC2		SBL 17/12/05
130	QC	8 pcs	11/24/17	11/24/17	0.00	0.00	QC8		ATK 17/12/05
140	Outsource	8 pcs	11/24/17	11/24/17			ATG001-VC		CMR 17-12-22
150	Packaging	8 pcs	11/24/17	11/24/17	0.00	0.00	Packaging2		CMR 17-12-22
155	QC	8 pcs	11/24/17	11/24/17	0.00	0.00	QC5		ATK 17-12-22
180	Packaging	8 pcs	11/24/17	11/24/17	0.00	0.00	Packaging3		ATK 17-12-22
190	QC21-SA	8 Ea	11/24/17	11/24/17	0.00	0.00	QC21		ATK 17-12-22

Part Op 110 - 1-Machine per folio FB154

Descriptions: 140 - Issue P/O to ATG : _____

180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M7075T6B7.000X2.000	9	0	0	0

Part Specifications

Specifications could not be found.

Plex 11/9/17 3:09 PM dart.lacelle.linda



S017163



RH Half – Upper Cutter Assembly

PART NO: 646.3311

Revision:

Operation:

Change No:

Start up Operation

Mfg Date: 12/04/17

Job No: 168021

Dart Aerospace Ltd.

1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com



S017163



RH Half – Upper Cutter Assembly

PART NO: 646.3311

Revision:

Operation:

Change No:

Outsource

Mfg Date: 12/04/17

Job No: 168021

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INSPECTION SHEET

Rev	Date	Change	Revised by	Approved
A	13.09.17	New Issue	KJ	
B	16.03.17	Dwg Rev updated	KJ	

DQA: _____ Date: _____



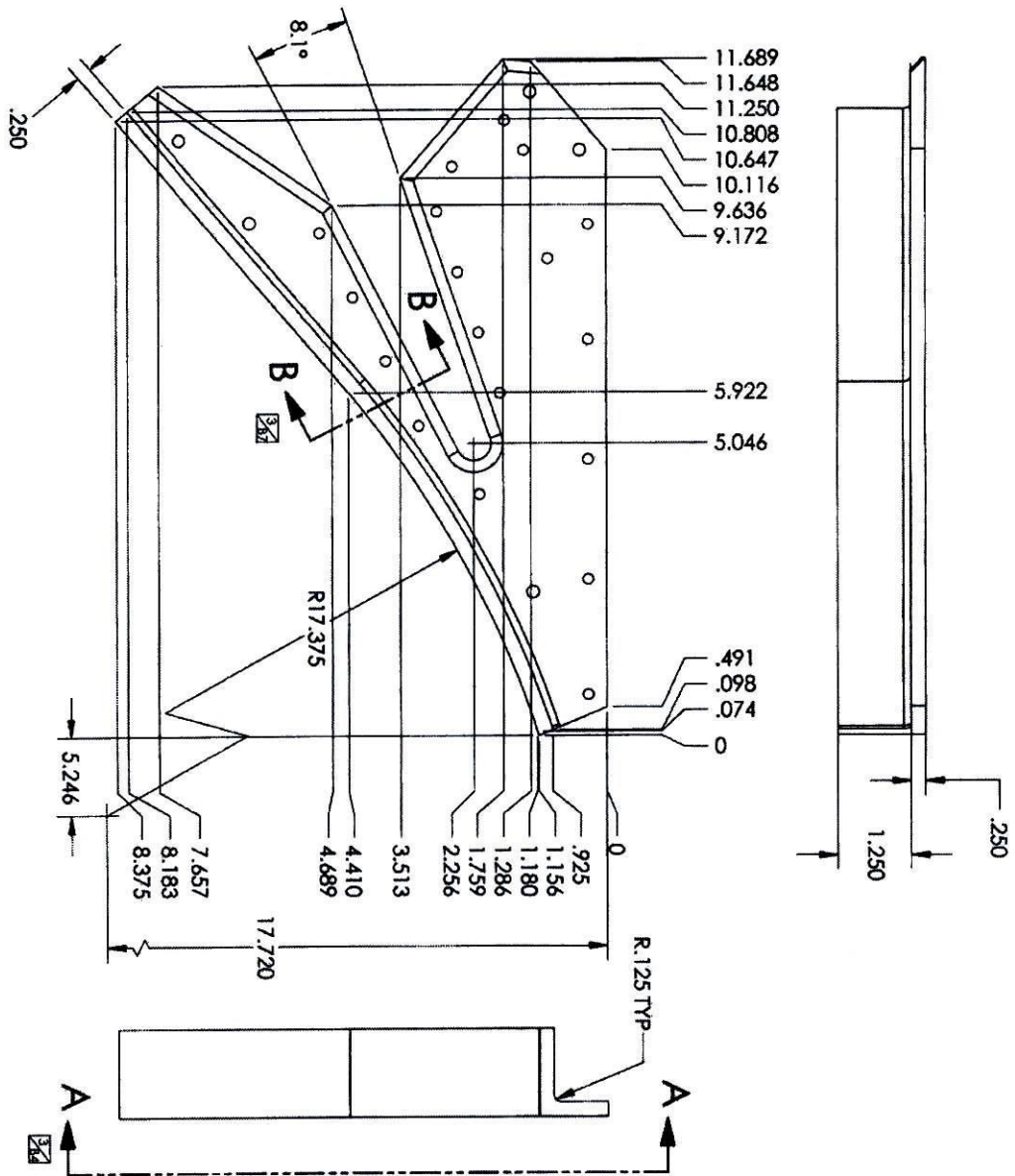
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

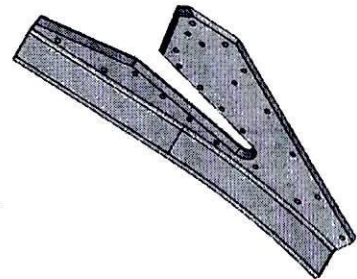
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																																															
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																																																																													
Description Work Order Deviation			Disposition																																																																														
			Completed By																																																																														
			Lead hand / Supervisor Approval Verification																																																																														
			QC / QA Coordinator Approval																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: left;">Root Cause</th> <th colspan="4" style="text-align: left;">FAULT CATEGORY</th> </tr> </thead> <tbody> <tr> <td>Environment ☐</td> <td>No Re-verification ☐</td> <td>Pressure/Forced ☐</td> <td>Temperature/Cure ☐</td> <td>Power Loss/Surge ☐</td> <td>Positioned Wrong ☐</td> </tr> <tr> <td>Design ☐</td> <td>Operator ☐</td> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>LOA ☐</td> <td>Product Improvement ☐</td> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Substation ☐</td> <td>Process Improvement ☐</td> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>Manufacturing Process ☐</td> <td colspan="4" rowspan="2" style="vertical-align: top;">OTHER : _____</td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> </tr> </tbody> </table>						Root Cause				FAULT CATEGORY				Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____				Misidentified ☐	Past Due ☐
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646.3310 SHOWN
 646.3311 OPPOSITE



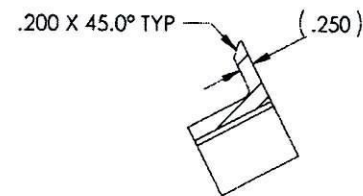
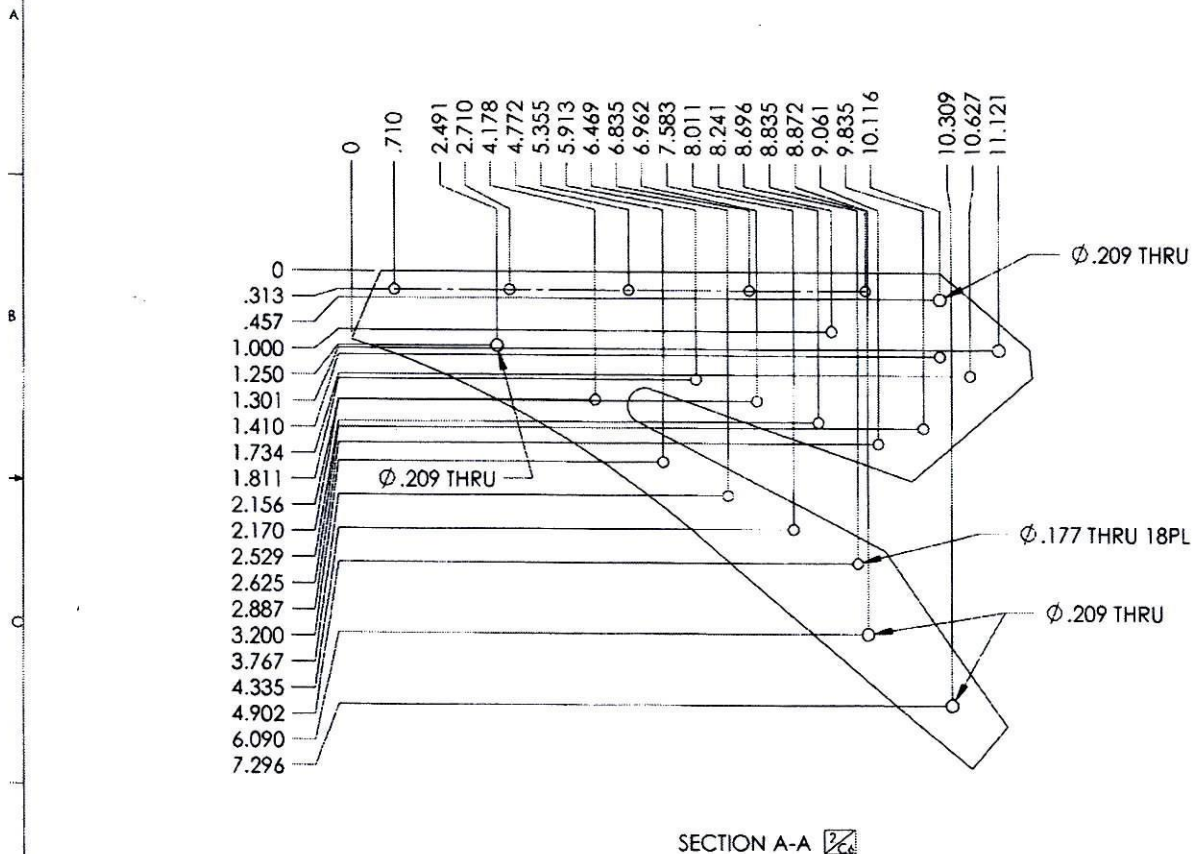
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DAS
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NOV 13 2017

DART 3000 BENTLEY DRIVE VISTA, CA 92081 (760) 724-5500	
DRAWN BY: [blank] CHECKED BY: [blank] DATE: [blank]	UPPER CUTTER ASSY 646.3300 SCALE: NONE SHEET 2 OF 8

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ORIGINAL DATE RUC-DA-119 00-34-00	3030 ENTERPRISE CT. SUITE A VISTA, CA. 92081 (760)-724-5300
DRAWN BY S. HUFF	AFICAL INDUSTRIES, INC. SHEET 3 OF 8
CHECKED BY P. BRAYO	UPPER CUTTER ASSY
DRAWING APPROVAL	SCALE NONE
CONTRACT NO.	SHEET 3 OF 8
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.001 ANGLES ±.2°	REV E 07/01/76 646.3300 A



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038553**

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038553

PO Date: 12/4/17

Due Date: 12/11/17

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	169053	RBT18650-101-1	Drain Tool : URF17-660 -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2 WATER SEAL -Certificate of Conformity is required	Firmed	12/11/17	1 pcs	0 pcs	1 pcs	\$16.00/pcs	\$16.00
Line Item Note part RUSH										
2	168550	RBD29905-1	Side Plate -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Certificate of Conformity is required	Firmed	12/11/17	4 pcs	0 pcs	4 pcs	\$16.00/pcs	\$64.00
3	168575	RBD29905-3	Cord Handle -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Certificate of Conformity is required	Firmed	12/11/17	1 pcs	0 pcs	1 pcs	\$16.00/pcs	\$16.00

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	168574	RBD29905-15	Center Plate -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Certificate of Conformity is required	Firmed	12/11/17	5 pcs	0 pcs	5 pcs	\$16.00/pcs	\$80.00
5	167512	D5355-041	Aft Clamp Assembly Issue P/O to ATG : Black Anodize as per Dwg D5355 Certification of Comformity is required.	Firmed	12/11/17	4 pcs	0 pcs	4 pcs	\$5.61/pcs	\$22.44
6	166975	D4977-1	Bracket, LH Issue P/O to ATG : Hard Black Anodize, PRIME AS PER dwg D4977	Firmed	12/11/17	2 pcs	0 pcs	2 pcs	\$10.90/pcs	\$21.80
7	168020	646.3310	LH Half - Upper Cutter Assembly Issue P/O to ATG : Hard Black Anodize/prime as per Dwg 646.3300	Firmed	12/11/17	7 pcs	0 pcs	7 pcs	\$20.45/pcs	\$143.15
8	168226	646.3310	LH Half - Upper Cutter Assembly Issue P/O to ATG : Hard Black Anodize/prime as per Dwg 646.3300	Firmed	12/11/17	4 pcs	0 pcs	4 pcs	\$20.45/pcs	\$81.80
9	169137	646.3310	LH Half - Upper Cutter Assembly Issue P/O to ATG : Hard Black Anodize/prime as per Dwg 646.3300	Firmed	12/11/17	1 pcs	0 pcs	1 pcs	\$20.45/pcs	\$20.45
10	165562	646.9710	Body Issue P/O to ATG : Hard Black Anodize/prime as per Dwg 646.9700	Firmed	12/11/17	40 pcs	0 pcs	40 pcs	\$16.85/pcs	\$674.00
11	165646	646.9810	Deflector Issue P/O to ATG : Hard Black Anodize/prime as per Dwg 646.9800	Firmed	12/11/17	4 pcs	0 pcs	4 pcs	\$49.60/pcs	\$198.40
Grand Total: \$1,338.04										

Order Notes



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914344

Date: 20-Dec-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
20 ea	Part: 646.9710 Body Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 22105	Rev: D	PO: PO038553 Line: 10
4 ea	Part: 646.9810 Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils). Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 22106	Rev: A	PO: PO038553 Line: 11 ✓
8 ea	Part: 646.3311 RH Half Upper Cutter Assembly Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (6 - .9 mils) per drawing. Job: 22119	Rev: NC	PO: PO038553 Line: 13
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>20/12/2017</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of Made in Canada.			



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731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914344

Date: 20-Dec-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via
		OUR TRUCK
Quantity	Description	
	receipt.	
Made in Canada.		